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File: USPT

Aug 14, 1990

DOCUMENT-IDENTIFIER: US 4948818 A

TITLE: Method of making porous hydrophilic-lipophilic copolymeric powders

Brief Summary Text (14):

The hydrophilic-lipophilic powders of the present invention may be used as carriers or adsorbents for materials such as water, aqueous systems, emollients, moisturizers, fragrances, dyes, pigments, flavors, drugs such as ibuprofen, phosphoric acid, insect repellents, vitamins, sunscreens, detergents, cosmetics, pesticides, pheromones, herbicides, steroids, sweeteners, pharmaceuticals, and antimicrobial agents. Finely divided solids such as analgesic materials can be adsorbed by dissolving the finely divided analgesic in a solvent, mixing the analgesic and solvent with the powder, and removing the solvent. Other post adsorbable materials include alkanes, alcohols, acid esters, silicones, glycols, organic acids, waxes, and alcohol ethers.

Detailed Description Text (31):

The water adsorbing porous polymeric materials of Example V are to be contrasted with the water containing beads of U.S. Pat. No. 3,627,708, issued Dec. 14, 1971. The bead of the '708 patent is produced by "in situ" suspension polymerization, and is adapted to contain water only because of the presence of a solubilizer such as sodium bis(2-ethyl hexyl) sulfosuccinate. The material of the present invention, on the other hand, is produced by a precipitation polymerization process, which contains no solubilizer, and produces a material in the form of a hydrophilic-lipophilic powder consisting of unit particles, agglomerates, and aggregates. Thus, the materials of the present invention are very distinct from the materials of the '708 patent. The materials of the present invention are of general utility, and may be used for the adsorption of lipophilic fluids and hydrophilic fluids.

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